

Claims

- [c1] A system for operating a remote device from an automotive vehicle comprising:
 - a keypad generating a first coded signal; and
 - a transmitter controller coupled to the keypad receiving the first coded signal and generating a wireless control signal for operating the remote device in response to the first coded signal.
- [c2] A system as recited in claim 1 wherein the first coded signal corresponds to a combination of buttons.
- [c3] A system as recited in claim 1 wherein the controller is coupled to the keypad through a multiplex bus.
- [c4] A system as recited in claim 1 wherein the transmitter controller comprises a memory storing a plurality of code signals associated with a plurality of control signals.
- [c5] A system as recited in claim 4 wherein the memory comprises a non-volatile memory.
- [c6] A system as recited in claim 1 further comprising a service connector for receiving a reset for clearing the

memory.

- [c7] A system as recited in claim 1 further comprising a second keypad for generating the first coded signal.
- [c8] A system as recited in claim 1 wherein the keypad comprises a radio key pad.
- [c9] A system as recited in claim 1 wherein the keypad comprises a stand-alone keypad.
- [c10] A system as recited in claim 1 wherein the keypad comprises a keyless entry keypad.
- [c11] A system as recited in claim 1 wherein the transmitter comprises a bus interface coupled to the memory, an enable logic comparing the first coded signal to codes stored in the memory.
- [c12] A system for an automotive vehicle comprising:
 - a bus;
 - a keypad coupling a first coded signal to the bus; and
 - a transmitter controller coupled to the bus for receiving the first coded signal, said transmitter comprising a memory and enabling logic, said enabling logic determining a control signal corresponding to the first coded signal, said transmitter controller comprising a transmitter generating a wireless signal corresponding to said

control signal.

- [c13] A system as recited in claim 12 further comprising a power source and an ignition lock having an ignition lock status, said first coded signal enabling the transmitter without regard to the ignition lock status.
- [c14] A system as recited in claim 12 wherein the keypad comprises a radio key pad.
- [c15] A system as recited in claim 12 wherein the keypad comprises a stand-alone keypad.
- [c16] A system as recited in claim 12 wherein the keypad comprises a keyless entry keypad.
- [c17] A method of operating a remotely controlled device using a transmitter of an automotive vehicle comprising;
generating a first coded signal corresponding to a combination of buttons from a keypad coupled to the vehicle;
determining a control signal corresponding to the first coded signal when the first coded signal is stored in memory; and
transmitting a wireless control signal corresponding to the first coded signal from a transmitter of the vehicle.
- [c18] A method as recited in claim 17 further comprising pro-

gramming enabling the system by entering a program code;

entering a new code and corresponding frequency into the memory.

- [c19] A method as recited in claim 17 further comprising re-setting the memory through a service connector.
- [c20] A method as recited in claim 17 further comprising entering a disable code; and disabling the system.